

INTER-OFFICE MEMORANDUM

Chief M — 5443 1/31/12

TO: Kenneth Robertson
Chief Procurement Officer
Purchasing Department
(Through Channels)
FROM: *A/C LY MD 4857*
Major Jorge A. Martin
Commander
Special Investigations Section

DATE: January 30, 2012
SUBJECT: Bomb Squad Talon Robot
REFERENCES:
ENCLOSURES: Supporting Documents

As per your request, this memorandum documents the acquisition of the Foster-Miller Talon robot in order to spend monies granted to the City of Miami by the Urban Area Security Initiative (UASI) for necessary upgrades to the robotic platform.

In 2005, The Miami Police Bomb Squad was selected to participate in a study on the capabilities of small robotic platforms used for explosive disposal in a public safety setting. The study was conducted by the Technical Support Work Group (TSWG) and sponsored by the United States Department of Homeland Security.

As part of the study, the Miami Police Bomb Squad accepted delivery of a Foster Miller Talon IIB robot. The Bomb Squad's role in the study would be to utilize the Talon robot in "real world" render safe operations as well as training. Bomb Technicians were then required to provide TSWG with written reports on a monthly basis, detailing the performance of the Talon robot. Personnel from the Bomb Squad did this, providing vital information on the strengths and weaknesses of the Talon robot. This completed analysis was later shared by TSWG to all stakeholders in the Explosive Ordnance Disposal (EOD) community, which may benefit from such information in the future.

Upon completion of the study, the Talon robot was permanently transferred to the Miami Police Bomb Squad at no cost. The cost of the Talon Robot in 2005 was \$120,353.00 as indicated in the attached invoice. The robot has been in our equipment inventory ever since and has proven invaluable in rendering safe hazardous devices/materials while allowing personnel to operate from a safe distance and minimize the risk of death or serious bodily injury. The upgrades to the Talon will enable the Bomb Squad to continue to perform remote render safe operations using the latest in robotic technology.

JAM:sc

MATERIAL INSPECTION AND RECEIVING REPORT

Form Approved
OMB No. 0704-0248

The public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0248), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE ABOVE ADDRESS.

SEND THIS FORM IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN THE DFARS, APPENDIX F-401.

1. PROCUREMENT INSTRUMENT IDENTIFICATION (CONTRACT) NO. N41756-05-M-4805	ORDER NO.	6. INVOICE NO./DATE	7. PAGE 1	OF 2	8. ACCEPTANCE POINT D
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2. SHIPMENT NO. NAV0001Z	3. DATE SHIPPED 2005July15	4. B/L N/A TCN	5. DISCOUNT TERMS Net 30 Days
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9. PRIME CONTRACTOR Foster-Miller, Inc. 350 Second Avenue Waltham, MA 02451-1196	CODE 30233	10. ADMINISTERED BY Navy Engineering Logistics Office Arlington, VA 22202	CODE
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11. SHIPPED FROM (If other than 9) Foster-Miller, Inc. 350 Second Avenue Waltham, MA 02451-1196	CODE 30233	FOB: D	12. PAYMENT WILL BE MADE BY CTTSO/TSWG 201 12th Street, Suite 116 Arlington, VA 22202 Attn: Michele Watson	CODE
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13. SHIPPED TO City of Miami Department of Fire-Rescue 1151 NW 7th Street, 3rd Floor Miami, FL 33136	CODE	14. MARKED FOR Attn: Joseph R. Fernandez Assistant Fire Chief/Emergency Manager	CODE
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15. ITEM NO.	16. STOCK/PART NO. (Indicate number of shipping containers - type of container - container number.)	DESCRIPTION	17. QUANTITY SHIP/REC'D*	18. UNIT	19. UNIT PRICE	20. AMOUNT
0001		Talon IIIB Robot System	1	EA	69,869.00	\$69,869.00
		Battery Kit, OCU, Rechargeable (with charger and adapter)	1	EA	2,920.00	2,920.00
		Camera, Remote Controlled, Zoom (40:1)	1	EA	1,932.00	1,932.00
		Comms, Fiber Optic Upgrade, 300 Meter Kevlar-Coated Cable	1	EA	14,769.00	14,769.00
		Firing Set, (2 Channel USTI with single firing set)	1	EA	3,524.00	3,524.00
		Illumination Package, Forward Looking	1	EA	471.00	471.00
		Pan Disrupter Mount with Recoil Reduction	1	EA	2,721.00	2,721.00
		Pan/Tilt with Mast	1	EA	7,550.00	7,550.00

21. CONTRACT QUALITY ASSURANCE		22. RECEIVER'S USE	
a. ORIGIN		Quantities shown in column 17 were received in apparent good condition except as noted.	
<input type="checkbox"/> CQA <input type="checkbox"/> ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents.		<input type="checkbox"/> CQA <input type="checkbox"/> ACCEPTANCE of listed items has been made by me or under my supervision and they conform to contract, except as noted herein or on supporting documents.	
DATE		DATE RECEIVED	
SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE	
TYPED NAME:		TYPED NAME:	
TITLE:		TITLE:	
MAILING ADDRESS:		MAILING ADDRESS:	
COMMERCIAL TELEPHONE NUMBER:		COMMERCIAL TELEPHONE NUMBER:	
		*If quantity received by the Government is the same as quantity shipped, indicate by (X) mark; if different, enter actual quantity received below quantity shipped and encircle.	

23. CONTRACTOR USE ONLY
DCMC - Boston, GFOC & GFOM
D. Daebler
P. McKinley
F. Pugsley
Contract/DNAV.060030
07/14/05

#297

MATERIAL INSPECTION AND RECEIVING REPORT
CONTINUATION SHEET

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SHIPMENT NO. NAV0001Z	DATE SHIPPED 2005July15	PROC. INSTRUMENT IDEN. N41756-05-M-4805	ORDER NO.	INVOICE NO.	
ITEM NO.	STOCK/PART NO. <small>(Indicate number of shipping containers - type of container - container number.)</small>	DESCRIPTION	QUANTITY SHIP'D/REC'D	UNIT	AMOUNT
		Two-Way Comms	1	EA	4,578.00
		Wrist Assembly	1	EA	5,771.00
		Two-Day On-Site Training Class Including Travel Expenses	LOT		4,500.00
		Two-Year Extended Warranty (\$14,386 --- included at no cost)	LOT		N/C
		Crating and Packaging Materials and Preparation for Shipment	1	EA	1,148.00
		Shipping	LOT		600.00
					TOTAL \$120,353.00



COMBATING TERRORISM TECHNICAL SUPPORT OFFICE

Mark Center Drive
Alexandria, VA 22215

January 4, 2012

Miami Police Dept. Bomb Squad
Attn: Able Costa
Special Investigations Section
400 NW 2 Ave
Miami, FL 33128

SUBJECT: Grant of Foster Miller Talon IIIB Robot in Support of ODP/TSWG Small Robot Evaluation 2005

In 2005, the Technical Support Working Group (TSWG) supported an evaluation of small robots for use by civilian bomb squads. This study was sponsored by the U.S. Department of Homeland Security, Preparedness Directorate, Office of Grants and Training. The Miami Police Department Bomb Squad was selected to participate in the evaluation, and a Foster Miller, Talon IIIB robot was delivered to the Bomb Squad in support of the evaluation. As a result of Miami P.D. Bomb Squad participation, the subject robot was permanently transferred to the Miami P.D. Bomb Squad at no cost, upon completion of the evaluation.

If there are any questions regarding the procurement and transfer of the subject Talon IIIB robot used for this study to the Miami P.D. Bomb Squad, please contact Mr. Anthony Detrick, Sr. Program Analyst, TSWG/Improvised Device Defeat, Office 571-372-7242, Cell 703-407-8037, or email anthony.detrick.ctr@cttso.gov.

Sincerely,

Edwin Bundy, PhD
Program Manager IDD Subgroup



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FEMA Preparedness Grants and Authorized Equipment List

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Pr

CBRNE Operational and Search and Rescue Equipment >> Operational Equipment >> Robots and Remotely Operated Vehicles >> Robots

[General](#) | [Grant Allowability](#) | [Previous Numbering](#)

AEL Number: 03OE-07-ROBT

AEL Title: Robots

Description

Robotic platforms to support various mission areas such as explosive device remediation, hazardous materials operations, tactical law enforcement operations, search & rescue, and surveillance/detection.

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Reference herein to any specific commercial products, processes, or services by trade name, trademark, manufacturer, or otherwise endorsement, recommendation, or favoring by the United States Government. Neither the United States Government nor any of its e. including but not limited to the warranties of merchantability and fitness for a particular purpose for any specific commercial pro
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Please provide the following information in order to document the sole source request:

1. Explain why the product/service requested is the only product/service that can satisfy your requirements, and explain why alternatives are unacceptable. Be specific with regard to **specifications, features, characteristics, requirements, capabilities, and compatibility.**

Describe what steps have been undertaken to make this determination.

The Talon robot is not distributed through other sales persons or markets. It can only be acquired through QinetiQ-NA. The Generation IIIB LAW currently in the possession of the City of Miami can no longer be supported by outdated Generation III intelligence or circuitry.

Advancement of electronics is a QinetiQ sole distributed product; there are no alternatives with the Talon robot.

Specifications are proprietary, but consist of upgraded circuitry and advancements in the electronics field; upgrade Generation IV Fire set system, along with moderate frame alterations to accept these changes.

Features & Capabilities of the upgrade allow easier maneuverability, climbing capabilities, and drive torque of the robotic platform.

Characteristics of the robot remain in that it is a sturdy platform that can handle rough terrain and use. On average in theatre with the military the Talon can withstand heavy day to day use better than any competitor's platform.

Requirements are that the current platform is outdated with advancements of electronics, and lessons learned in the field with the systems over the years. Hence this being the Generation IV Talon.

Compatibility within its own system remains as the chassis of the robot is the same. It is compatible with the controller currently used on the Generation III Talon.

QinetiQ-NA continuously moves to improve its platforms as bomb technicians military or civilian depend on these platforms to save the lives of themselves and others. Without advancements in technology, tools, mobility, etc. the Talon would go the way of the Model T. QinetiQ-NA is dedicated to saving lives of those who put themselves in harm's way.

2. Explain why this services provider, supplier or manufacturer is the only practicably available source from which to obtain this product or service, and describe the efforts that were made to verify and confirm whether, or not, this is so. (Obtain and include a letter from the manufacturer confirming claims made by distributors or exclusive distributorships regarding the product or service, if that is cited as a reason for this Sole Source.)

QinetiQ-NA is the only provider of sales and service to the Talon family of robotic platforms. A sole source letter has been provided.

3. Will this product obligate us to a particular vendor for future purchases (either in terms of maintenance that only this vendor will be able to perform and/or if we purchase this item, will we need more "like" items in the future to match this one)?

The Talon robot Generation III has been in the bomb squad's possession for nearly 6 years and was given to the city at no cost by a federal entity, (TSWIG). The upgrade to the platform and in its entirety is a proprietary piece of machinery. There are no outside vendors associated with repair or service of these platforms.

4. Explain why the price for this product or service is considered to be fair and reasonable.

Price in robotics as well as any market is based on demand, availability of parts, electronics, current labor costs, etc. QinetiQ-NA consistently wins federal, state, and local government contracts through competitive process. That is why QinetiQ-NA has more robotic platforms in service to the US Armed Forces, Foreign Militaries, and First Responders worldwide than any other robot manufacturer.

5. Describe the negotiation efforts, if any, that have been made with the supplier to obtain the best possible price.

Negotiations on price were completed with Sgt Steve Castell, Ralf Kreling (QinetiQ-NA Regional Product Manager), and Fran Pugsley (QinetiQ-NA Business Systems Manager). The cost of the upgrade is below market due to the funding identified as available by Sgt Castell. The real cost to QinetiQ-NA is close to or exceeds that quoted; however, this will assist QinetiQ-NA in moving forward with the Generation IV Talon. It also exhibits our dedication to the men and women who actually perform the duties of bomb technicians.

6. Explain the consequences(s) to the City, including the dollar estimate of the financial impact, if this Sole Source is not approved.

Based on the fact that platform was given to the City of Miami at no cost (\$150k savings) by a federal entity (TSWIG). There was no initial outlay of capitol funds for the purchase. The upgrade to the system as quoted will allow it to remain an active participant in the bomb squad's tool box for years into the future. This will assist in keeping the bomb technician's and City of Miami safe from harm associated with explosive related incidents.

Presently to purchase a new equivalent robotic platform system from a reputable robotic company would cost the City of Miami, approximately \$130k to \$175k. To purchase a system from a less qualified robotic manufacturer would place the city in a position of not providing the best product available for its personnel when they must put themselves in harm's way.